

Contents

Volume 273 (1992)

Workshop on DNA repair

A.R. Lehmann, J.H.J. Hoeijmakers, A.A. Van Zeeland, C.M.P. Backendorf, B.A. Bridges, A. Collins, R.P.D. Fuchs, G.P. Margison, R. Montesano, E. Moustacchi, A.T. Natarajan, M. Radman, A. Sarasin, E. Seeberg, C.A. Smith, M. Stefanini, L.H. Thompson, G.P. Van der Schans, C.A. Weber and M.Z. Zdzienicka (Great Britain, The Netherlands)

1

Research Papers

Differences in nucleotide and base DNA excision repair observed during mitogenic stimulation of bovine lymphocytes T.J. Schrader (Canada)	29
UV endonuclease-mediated enhancement of UV survival in <i>Micrococcus luteus</i> : evidence revealed by deficiency in the Uvr homolog H. Nakayama, S. Shiota and K. Umezawa (Japan)	43
Biochemical heterogeneity in xeroderma pigmentosum complementation group E S. Keeney, H. Wein and S. Linn (U.S.A.)	49
Defective DNA endonuclease activities in Fanconi's anemia cells, complementation groups A and B M.W. Lambert, G.J. Tsongalis, W.C. Lambert, B. Hang and D.D. Parrish (U.S.A.)	57
(6–4) Photoproducts and not cyclobutane pyrimidine dimers are the main UV-induced mutagenic lesions in Chinese hamster cells M.Z. Zdzienicka, J. Venema, D.L. Mitchell, A. Van Hoffen, A.A. Van Zeeland, H. Vrieling, L.H.F. Mullenders, P.H.M. Lohman and J.W.I.M. Simons (The Netherlands, U.S.A.)	73
Identification of cellular factors that recognize UV-damaged DNA in <i>Drosophila melanogaster</i> T. Todo and H. Ryo (Japan)	85

Special Issue

Excision Repair Disorders and Human DNA Repair Mechanisms *edited by B. Bridges and H. Takebe*

Preface

B. Bridges and H. Takebe (Great Britain and Japan)	95
The XPD complementation group Insights into xeroderma pigmentosum, Cockayne's syndrome and trichothiodystrophy R.T. Johnson and S. Squires (Great Britain)	97
DNA repair investigations in nine Italian patients affected by trichothiodystrophy M. Stefanini, S. Giliani, T. Nardo, S. Marinoni, V. Nazzaro, R. Rizzo and G. Trevisan (Italy)	119
A comparison of the response of unstimulated and stimulated T-lymphocytes and fibroblasts from normal, xeroderma pigmentosum and trichothiodystrophy donors to the lethal action of UV-C C.F. Arlett, S.A. Harcourt, J. Cole, M.H.L. Green and A.V. Anstey (Great Britain)	127
UV-C sensitivity of unstimulated and stimulated human lymphocytes from normal and xeroderma pigmentosum donors in the comet assay: A potential diagnostic technique M.H.L. Green, J.E. Lowe, S.A. Harcourt, P. Akinluyi, T. Rowe, J. Cole, A.V. Anstey and C.F. Arlett (Great Britain)	137
The repair of large DNA adducts in mammalian cells R. Waters, C.J. Jones, E.A. Martin, A.-L. Yang and N.J. Jones (Great Britain)	145

Xeroderma pigmentosum endonuclease complexes show reduced activity on and affinity for psoralen cross-linked nucleosomal DNA D.D. Parrish, W.C. Lambert and M.W. Lambert (U.S.A.)	157
Elevated <i>hprt</i> mutant frequency in circulating T-lymphocytes of xeroderma pigmentosum patients J. Cole, C.F. Arlett, P.G. Norris, G. Stephens, A.P.W. Waugh, D.M. Beare and M.H.L. Green (Great Britain)	171
Co-recessive inheritance: A model for DNA repair and other surveillance genes in higher eukaryotes W.C. Lambert and M.W. Lambert (U.S.A.)	179
Three nonsense mutations responsible for group A xeroderma pigmentosum I. Satokata, K. Tanaka, N. Miura, M. Narita, T. Mimaki, Y. Satoh, S. Kondo and Y. Okada (Japan)	193
Identification of splicing mutations of the last nucleotides of exons, a nonsense mutation, and a missense mutation of the XPAC gene as causes of group A xeroderma pigmentosum I. Satokata, K. Tanaka, S. Yuba and Y. Okada (Japan)	203
UV-induced base substitution mutations in a shuttle vector plasmid propagated in group C xeroderma pigmentosum cells T. Yagi, M. Sato, J. Tatsumi-Miyajima and H. Takebe (Japan)	213
Correlation between DNA methylation and expression of <i>O⁶-methylguanine-DNA methyltransferase</i> gene in cultured human tumor cells Y. Wang, T. Kato, H. Ayaki, K. Ishizaki, K. Tano, S. Mitra and M. Ikenaga (Japan, U.S.A.)	221
Mitochondrial DNA repair by photolyase A. Yasui, H. Yajima, T. Kobayashi, A.P.M. Eker and A. Oikawa (Japan, The Netherlands)	231
<i>Conference Report</i>	
Joint Workshop on DNA repair mechanisms and embryo manipulation Report of the Third Annual Workshop of the Institute for Molecular and Cellular Biology, Osaka University, held in Osaka (Japan), 21–23 January 1991 K. Tanaka (Japan)	237
[end of special issue]	
<i>Research Papers</i>	
Sensitivity and single-strand DNA break repair in Chinese hamster mutants exposed to the carcinogen aflatoxin B ₁ epoxide and its dichloride model E.A. Martin and R. Waters (Great Britain)	243
Properties of a monoclonal antibody for the detection of abasic sites, a common DNA lesion B.-X. Chen, K. Kubo, H. Ide, B.F. Erlanger, S.S. Wallace and Y.W. Kow (U.S.A.)	253
Molecular cloning and DNA sequencing of the <i>radC</i> gene of <i>Escherichia coli</i> K-12 I. Felzenszwalb, S. Boiteux and J. Laval (France)	263
Increased resistance to the toxic effects of alkylating agents in tobacco expressing the <i>E. coli</i> DNA repair gene <i>ada</i> K. Angelis, J. Bříza, J. Šatava, I. Skákal, J. Velemínský, J. Vlasák, K. Kleibl and G.P. Margison (Czechoslovakia, UK)	271
Evidence for excision repair in promitochondrial DNA of anaerobic cells of <i>Saccharomyces cerevisiae</i> K. Pasupathy and D.S. Pradhan (India)	281
<i>Contents</i> , Vol. 273 (1992)	289

RG